

**ABSTRACT**

An in vivo device for sensing a lumen such as the GI tract, such as an in vivo imaging device or other sensing device, may include a substantially spherical housing and an oblong appendage attached to the housing. The appendage may be detached in vivo, for example in the stomach. The in vivo device may then roll and glide along a stomach wall to provide, for example, a smooth sampled image stream.